

## Using the Quadratic Formula

Date\_\_\_\_\_ Period\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $m^2 - 5m - 14 = 0$

2)  $b^2 - 4b + 4 = 0$

3)  $2m^2 + 2m - 12 = 0$

4)  $2x^2 - 3x - 5 = 0$

5)  $x^2 + 4x + 3 = 0$

6)  $2x^2 + 3x - 20 = 0$

7)  $4b^2 + 8b + 7 = 4$

8)  $2m^2 - 7m - 13 = -10$

9)  $2x^2 - 3x - 15 = 5$

10)  $x^2 + 2x - 1 = 2$

11)  $2k^2 + 9k = -7$

12)  $5r^2 = 80$

13)  $2x^2 - 36 = x$

14)  $5x^2 + 9x = -4$

15)  $k^2 - 31 - 2k = -6 - 3k^2 - 2k$

16)  $9n^2 = 4 + 7n$

17)  $8n^2 + 4n - 16 = -n^2$

18)  $8n^2 + 7n - 15 = -7$

## Using the Quadratic Formula

Date\_\_\_\_\_ Period\_\_\_\_

**Solve each equation with the quadratic formula.**

1)  $m^2 - 5m - 14 = 0$

$\{7, -2\}$

2)  $b^2 - 4b + 4 = 0$

$\{2\}$

3)  $2m^2 + 2m - 12 = 0$

$\{2, -3\}$

4)  $2x^2 - 3x - 5 = 0$

$\{\frac{5}{2}, -1\}$

5)  $x^2 + 4x + 3 = 0$

$\{-1, -3\}$

6)  $2x^2 + 3x - 20 = 0$

$\{\frac{5}{2}, -4\}$

7)  $4b^2 + 8b + 7 = 4$

$\{-\frac{1}{2}, -\frac{3}{2}\}$

8)  $2m^2 - 7m - 13 = -10$

$\{\frac{7 + \sqrt{73}}{4}, \frac{7 - \sqrt{73}}{4}\}$

$$9) \ 2x^2 - 3x - 15 = 5$$

$$\{4, -\frac{5}{2}\}$$

$$10) \ x^2 + 2x - 1 = 2$$

$$\{1, -3\}$$

$$11) \ 2k^2 + 9k = -7$$

$$\{-1, -\frac{7}{2}\}$$

$$12) \ 5r^2 = 80$$

$$\{4, -4\}$$

$$13) \ 2x^2 - 36 = x$$

$$\{\frac{9}{2}, -4\}$$

$$14) \ 5x^2 + 9x = -4$$

$$\{-\frac{4}{5}, -1\}$$

$$15) \ k^2 - 31 - 2k = -6 - 3k^2 - 2k$$

$$\{\frac{5}{2}, -\frac{5}{2}\}$$

$$16) \ 9n^2 = 4 + 7n$$

$$\{\frac{7 + \sqrt{193}}{18}, \frac{7 - \sqrt{193}}{18}\}$$

$$17) \ 8n^2 + 4n - 16 = -n^2$$

$$\{\frac{-2 + 2\sqrt{37}}{9}, \frac{-2 - 2\sqrt{37}}{9}\}$$

$$18) \ 8n^2 + 7n - 15 = -7$$

$$\{\frac{-7 + \sqrt{305}}{16}, \frac{-7 - \sqrt{305}}{16}\}$$